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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,751	07/03/2003	Srikumar Chari	50325-0782	5654
29989 7590 08/11/2008 HICKMAN PALERMO TRUONG & BECKER, LLP 2055 GATEWAY PLACE SUITE 550 SAN JOSE, CA 95110				
			EXAMINER	
			ISMAIL, SHAWKI SAIF	
		ART UNIT	PAPER NUMBER	
		2155		
		MAIL DATE	DELIVERY MODE	
		08/11/2008 PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Supplemental
Notice of Allowability**

Application No.

10/613,751

Examiner

SHAWKI S. ISMAIL

Applicant(s)

CHARI ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to correct some claim dependencies of the previous notice of allowance mailed out on 6/17/08.
2. ☒ The allowed claim(s) is/are 1-4,6-9,12,13,15-18,21-24,27-30,32-35,37-41,43-46,48-51,54-57,59-62 and 65.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10613751	7/3/03	CHARI ET AL.	50325-0782

HICKMAN PALERMO TRUONG & BECKER, LLP
2055 GATEWAY PLACE
SUITE 550
SAN JOSE, CA 95110

EXAMINER

SHAWKI S. ISMAIL

ART UNIT	PAPER
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2155

20080728

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

This supplemental allowance is being sent to correct some problems with claim dependencies. Some claims were dependent on cancelled claims.

SUPPLEMENTAL EXAMINERS AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and /or additions by unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such amendment, it must be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in an interview with Christopher Tanner (Reg. No. 41,518) on May 7, 2008.
3. The application has been amended as follows:
Claims 1, 5, 7, 12, 14, 16, 21, 25, 27, 32, 36-38, 42-43, 47-49, 53, 54, 58, 60 and 64-66 have been amended.
 1. (Currently amended) A method of automatically generating a configuration for a network device, the method comprising the computer-implemented steps of:
receiving a partial configuration for a network device, wherein the partial configuration comprises a plurality of configuration commands, wherein each of one or more of the configuration commands is associated with one of a plurality of user interface elements;
parsing the partial configuration to identify the user interface elements;
generating a local user interface page from a user based on the user interface elements;
receiving one or more configuration parameter values via the user interface page; and
substituting the configuration parameter values into the partial configuration to result in creating a complete configuration for the device;

wherein the partial configuration is at least partially customized with one or more configuration parameter values specific to a network service provider prior to shipment of the network device to a user;

wherein each of the user interface elements comprises a data variable name and a user interface string value;

generating an electronic document that is displayable by an end user computer system that is communicatively coupled to the network device,

wherein the electronic document includes the user interface string value;

causing the network device to display the electronic document using the end user computer system; ~~and~~

associating one of the configuration parameter values with the data variable name [[.]] ;

wherein each of the user interface elements further comprises a data type value; and

determining whether a data type of the one of the configuration parameter values matches the data type value.

5. (Cancelled).

7. (currently amended) change “A method as recited in claim 5,...” to “A method as recited in claim 1,...”

12. (Currently amended) A method of automatically generating a network device configuration, the method comprising the computer-implemented steps of:

reading a configuration template from non-volatile memory of a network device, wherein the configuration template comprises a plurality of configuration commands, wherein each of one or more of the configuration commands is associated with one of a plurality of user interface

elements, wherein the configuration template is stored in the memory prior to movement of the network device from a vendor or service provider to a user;

 parsing the configuration template to identify one or more user interface elements;

 generating a local user interface page based on the user interface elements;

 receiving one or more configuration parameter values from a user of the network device via the user interface page; ~~and~~

 substituting the configuration parameter values into the configuration template in association with the configuration commands to result in creating and storing a complete configuration for the device;

 wherein the configuration template is at least partially customized with one or more configuration parameter values specific to a network service provider;

 wherein each of the user interface elements comprises a data variable name and a user interface string value;

 generating an electronic document that is displayable by an end user computer system that is communicatively coupled to the network device, wherein the electronic document includes the user interface string value;

 causing the network device to display the electronic document using the end user computer system; ~~and~~

 associating one of the configuration parameter values with the data variable name[.];

wherein each of the user interface elements further comprises a data type value; and

determining whether a data type of the one of the configuration parameter values matches the data type value.

14. (Cancelled).

16. (currently amended) change “A method as recited in claim 14,...” to “A method as recited in claim 12,...”

21. (Currently amended) A computer-readable storage medium carrying one or more sequences of instructions for automatically generating a configuration for a network device, which instructions, when executed by one or more processors, cause the one or more processors to carry out the steps of:

receiving a partial configuration for a network device, wherein the partial configuration comprises a plurality of configuration commands, wherein each of one or more of the configuration commands is associated with one of a plurality of user interface elements;

parsing the partial configuration to identify the user interface elements;

generating a local user interface page based on the user interface elements;

receiving one or more configuration parameter values via the user interface page;

substituting the configuration parameter values into the partial configuration to result in creating a complete configuration for the device;

wherein the partial configuration is at least partially customized with one or more configuration parameter values specific to a network service provider prior to shipment of the network device to a user[.]] ;

wherein each of the user interface elements comprises a data variable name and a user interface string value;

generating an electronic document that is displayable by an end user computer system that is communicatively coupled to the network device, wherein the electronic document

includes the user interface string value;

causing the network device to display the electronic document using the end user computer system; ~~and~~

associating one of the configuration parameter values with the data variable name[[.]] ;
wherein each of the user interface elements further comprises a data type value; and
determining whether a data type of the one of the configuration parameter values matches
the data type value.

25. (Cancelled).

27. (currently amended) change “A computer-readable medium as recited in claim 25,...” to “A computer-readable medium as recited in claim 21,...”

32. (Currently amended) An apparatus for automatically generating a configuration for a network device, comprising:

means for computing comprising a communication mechanism for communicating
information, and a processor coupled with the communication mechanism for processing
information;

means for receiving a partial configuration for a network device, wherein the partial configuration comprises a plurality of configuration commands, wherein each of one or more of the configuration commands is associated with one of a plurality of user interface elements;

means for parsing the partial configuration to identify the user interface elements;

means for generating a local user interface page based on the user interface elements;

means for receiving one or more configuration parameter values via the user interface page;

means for substituting the configuration parameter values into the partial configuration to result in creating a complete configuration for the device;

wherein the partial configuration is at least partially customized with one or more configuration parameter values specific to a network service provider prior to shipment of the network device to a user;

wherein each of the user interface elements comprises a data variable name and a user interface string value;

means for generating an electronic document that is displayable by an end user computer system that is communicatively coupled to the network device, wherein the electronic document includes the user interface string value;

means for causing the network device to display the electronic document using the end user computer system; ~~and~~

means for associating one of the configuration parameter values with the data variable name.

wherein each of the user interface elements further comprises a data type value; and
means for determining whether a data type of the one of the configuration parameter
values matches the data type value.

36. (Cancelled).

37. (currently amended) change "An apparatus as recited in claim 36,..." to "An apparatus as recited in claim 32,..."

38. (currently amended) change "An apparatus as recited in claim 36,..." to "An apparatus as recited in claim 32,..."

42. (Cancelled).

43. (Currently amended) An apparatus for automatically generating a configuration for a network device, comprising: a network interface that is coupled to the data network for receiving one or more packet flows therefrom; a processor; one or more stored sequences of instructions which, when executed by the processor, cause the processor to carry out the steps of: receiving a partial configuration for a network device, wherein the partial configuration comprises a plurality of configuration commands, wherein each of one or more of the configuration commands is associated with one of a plurality of user interface elements; parsing the partial configuration to identify the user interface elements; generating a local user interface page based on the user interface elements; receiving one or more configuration parameter values via the user interface page; ~~and~~ substituting the configuration parameter values into the partial configuration to result in creating a complete configuration for the device; wherein the partial configuration is at least partially customized with one or more configuration parameter values specific to a network service provider prior to shipment of the network device to a user; wherein each of the user interface elements comprises a data variable name and a user interface string value; generating an electronic document that is displayable by an end user computer system that is communicatively coupled to the network device, wherein the electronic document includes the user interface string value; causing the network device to display the electronic document using the end user

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computer system; and

associating one of the configuration parameter values with the data variable name;
wherein each of the user interface elements further comprises a data type value; and
determining whether a data type of the one of the configuration parameter values matches
the data type value.

47. (Cancelled).

48. (currently amended) change "An apparatus as recited in claim 42,..." to "An apparatus as recited in claim 43,..."

49. (currently amended) change "An apparatus as recited in claim 47,..." to "An apparatus as recited in claim 43,..."

53. (Cancelled).

54. (Currently amended) A method of enabling a network service provider to customize a configuration of a network device, the method comprising the computer-implemented steps of:

creating and storing a partial configuration for a network device within the network device, wherein the partial configuration comprises a plurality of configuration commands, wherein each of one or more of the configuration commands is associated with one of a plurality of user interface elements;

providing the network device with the partial configuration to an end user, wherein setup of the network device causes the network device to perform the steps of parsing the partial configuration to identify the user interface elements; generating a local user interface page based on the user interface elements; receiving one or more configuration parameter values via the user

interface page; and substituting the configuration parameter values into the partial configuration to result in creating a complete configuration for the device;

wherein the partial configuration is at least partially customized with one or more configuration parameter values specific to the network service provider before providing the device to the end user;

wherein each of the user interface elements comprises a data variable name and a user interface string value;

generating an electronic document that is displayable by an end user computer system that is communicatively coupled to the network device, wherein the electronic document includes the user interface string value;

causing the network device to display the electronic document using the end user computer system; and

associating one of the configuration parameter values with the data variable name~~[[.]]~~ ;
wherein each of the user interface elements further comprises a data type value; and
determining whether a data type of the one of the configuration parameter values matches
the data type value.

58. (Cancelled).

60. (currently amended) change “A method as recited in claim 58,...” to “An apparatus as recited in claim 54,...”

64. (Cancelled).

65. (Currently amended) A method of enabling a network service provider to customize a configuration of a network device, the method comprising the computer-

implemented steps of:

creating a partial configuration for a network device, wherein the partial configuration comprises a plurality of configuration commands, wherein each of one or more of the configuration commands is associated with one of a plurality of user interface elements;

storing the partial configuration in the network device;

providing the network device with the partial configuration to an end user, wherein setup of the network device causes the network device to perform the steps of parsing the partial configuration to identify the user interface elements; generating a local user interface page based on the user interface elements; receiving one or more configuration parameter values via the user interface page; and substituting the configuration parameter values into the partial configuration to result in creating a complete configuration for the device;

receiving a configuration request from the device, based on the device operating according to the complete configuration;

wherein the partial configuration is at least partially customized with one or more configuration parameter values specific to the network service provider before providing the device to the end user;

wherein each of the user interface elements comprises a data variable name and a user interface string value;

generating an electronic document that is displayable by an end user computer system that is communicatively coupled to the network device, wherein the electronic document includes the user interface string value;

causing the network device to display the electronic document using the end user

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computer system; and

associating one of the configuration parameter values with the data variable name ;
wherein each of the user interface elements further comprises a data type value; and
determining whether a data type of the one of the configuration parameter values matches
the data type value.

66. (Cancelled).

REASONS FOR ALLOWANCE

4. The following is an Examiner's Statement of Reasons for Allowance:

Claims 1-4, 6-9, 12-13, 15-18, 21-24, 27-30, 32-35, 37-41, 43-46, 48-51, 54-57, 59-62 and 65 are allowable over the prior art of record.

The examiner has found that the prior art of record does not teach or suggest or render obvious a method, apparatus and computer readable storage medium for automatically generating a configuration for a network device and for minimizing the installation complexity of network devices prior to installation by allowing network service providers to at least partially pre-configure (i.e., customize) the network devices prior to distribution and allowing the receiving users to locally complete the device's configurations once connected to the service provider's network as set forth in the specification and recited in the independent claims.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawki S Ismail whose telephone number is 571-272-3985. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on 571-272-4006. The fax phone number for the organization where this

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application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Shawki S Ismail/
Examiner, Art Unit 2155
July 28, 2008

/saleh najjar/

Supervisory Patent Examiner, Art Unit 2155